



RELATIONSHIPS BETWEEN METALS EXTENT AND CYTOLOGICAL CHARACTERISTICS AT *Prunus persica L.* POLLEN

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Abstract

The heavy metal concentrations exceeding the standard admissibility, determine modifications of some cytological parameters. Therefore, by this paper, there were determined the concentrations of copper, iron, manganese and zinc from *Prunus persica L.* pollen grains (Research-Development Fruitgrowing Station, Constantza, Romania) using wet digestion followed by flame atomic absorption spectrometry (FAAS). Then, the main cytological parameters (such as cytological viability and germination capacity, number of germinative pores, cultures of polinic tubes) were determined and correlated with the obtained heavy metal levels. As a result, the iron concentrations were high in the pollen grains from some of the studied locations; the cytological characteristics of those pollen grains were modified (for example, the viability of pollen grains decreased).

Key words: heavy metals, pollen, cytological parameters.

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